

DESCRIPTION

PU-3500 is a two-component, 85% solids, VOC compliant, polyurethane that was developed as a finish coat for concrete surfaces. It provides outstanding adhesion on a large number of substrates and performs well in a wide range of temperature conditions. It displays outstanding scratch resistance. This system meets the regulations of the Canadian Food Inspection Agency (CFIA).

ADVANTAGES

- Long pot life
- Displays moderate cure times with excellent adhesion
- Long open times allow for self-leveling capabilities and increased hiding power as well as broadcasts of decorative aggregate
- **VOC compliant in all 50 states and Canada**
- Easy to mix 1:1 ratio
- Excellent adhesive properties, allowing application on other firm and hard coating, as well as a good bond to the substrate

TECHNICAL DATA

PACKAGING	7.56L (2 US GAL KIT)		
COLOR	PART A LIGHT YELLOW	PART B LIGHT YELLOW	MIX LIGHT YELLOW
RECOMMENDED THICKNESS	PRIMER (PE-100) - 8 MILS (200 FT ² /GAL)		
TOP-COAT (PU-3500)			
	OVER SOLID COLOR	8 MILS (200 FT ² /GAL)	
	OVER VINYL CHIPS	10 MILS (160 FT ² /GAL)	
SHELF LIFE	12 MONTHS IN ORIGINAL UNOPENED FACTORY SEALED CONTAINERS. KEEP AWAY FROM EXTREME COLD, HEAT, OR MOISTURE. KEEP OUT OF DIRECT SUNLIGHT AND AWAY FROM FIRE HAZARDS.		
MIX RATIO, BY VOLUME	A:B = 1:1		
MIX RATIO, BY WEIGHT (GRAMS)	A:B = 100:116		
POT LIFE (454 G)	~2 HOURS @ 25°C		

PROPERTIES @ 23°C (73°F) AND 50% R.H.

SOLIDS CONTENT		PART A	PART B	MIX
	BY WEIGHT	95%	80%	85%
DENSITY (KG/L)		PART A	PART B	MIX
		1.02	1.19	1.10
THINNER RECOMMENDED		XYLENE		
DRYING TIMES				
	RECOAT TIME	12 -24 HOURS		
	PEDESTRIAN TRAFFIC	24 HOURS		
	NORMAL TRAFFIC	48-72 HOURS		
	HEAVY EQUIPMENT TRAFFIC	7 DAYS (FULL CURE)		
ADHESION, ASTM D4541 CONCRETE-PRIMER		>500 PSI (SUBSTRATE RUPTURES)		
WATER ABSORPTION, ASTM D570		0.2%		
ABRASION RESISTANCE, ASTM D4060 TABER ABRASER CS-17 WHEEL / 1000G (2.2 LBS.)/1000 CYCLES		0.31 MG		
HARDNESS (SHORE D), ASTM D2240		75 - 78		
VISCOSITY @ 25°C		PART A	PART B	MIX
		700-900	200-400	400-600
TENSILE STRENGTH, ASTM D638		3800 PSI		
ELONGATION AT BREAK, ASTM D638		200%		

* Please note, that the indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same mileage. *

SURFACE PREPARATION

OLD CONCRETE	CONCRETE SURFACE MUST BE CLEANED. BLASTAC, SAND BLASTING, DIAMOND GRINDER W/30 GRIT OR COARSE, OR WATER BLASTING IS HIGHLY RECOMMENDED TO REMOVE SURFACE CONTAMINATES. ANY OILS AND FATS MUST BE REMOVED PRIOR TO PRODUCT APPLICATION. ACID ETCHING MAY BE REQUIRED (FOLLOWED BY A THOROUGH RINSING) TO OPEN THE PORES OF THE CONCRETE TO ACCEPT A PRIMER. DO NOT APPLY TO WET SUBSTRATES. CHLORIDE, MOISTURE, AND PH LEVELS SHOULD BE CHECKED PRIOR TO APPLICATION.
NEW CONCRETE	THE CONCRETE SHOULD BE ALLOWED TO CURE FOR A MINIMUM OF 30 DAYS. COMPRESSION RESISTANCE OF CONCRETE MUST BE AT LEAST 25 MPA (3625 LBS./INCH ²) AFTER 28 DAYS AND TRACTION RESISTANCE MUST BE AT LEAST 1,5 MPA (218 LBS./INCH ²). BLASTAC, SAND BLASTING, DIAMOND GRINDER W/30 GRIT OR COARSER OR ACID ETCHING (FOLLOWED BY A THOROUGH RINSING) IS REQUIRED TO REMOVE THE SURFACE LAITANCE THAT APPEARED DURING THE CURING PROCESS.

MIXING

Materials should be pre-conditioned to a minimum of 10°C prior to use. Thoroughly mix each component separately. Pour component B into component A using the proper mixing ratio of 1A:1B by volume. Mix both components for at least 1 minute using a drill at low revolution (300 to 450 rpm) to reduce trapping of air. While mixing, scrape bottom and walls of container at least once to ensure a homogeneous mix. Only prepare quantity that may be applied during pot life of mixture.

APPLICATION

Apply mixed product on the prepared surface tightly (thin film) using a rubber rake and pass a roller to obtain a uniform coating. Avoid creating puddles.

CLEANING

Use xylene before product cures for cleaning. Once the product has hardened, it may only be removed through mechanical means.

RESTRICTIONS

- Minimum/Maximum temperature of substrate: 10°C / 30°C (50°F / 86°F).
- **Do not apply in direct sunlight.**
- Maximum relative humidity during application and curing: 85 %.
- Substrate temperature must be 3 °C (5.5 °F) above dew point measured.
- Humidity content of substrate must be < 4 % when coating is applied.
- Do not apply on porous surfaces where a transfer of humidity may occur during application.
- Protect from humidity, condensation and contact with water during the 24 hour initial curing period.

HEALTH AND SAFETY

In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse. For more information, consult the material safety data sheet.

Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke an irritation. Avoid eye contact. Contact with may cause serious burns. Avoid breathing vapors release from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filtering organic vapors approved by the NIOSH/MSHA is recommended. Predict suitable ventilation.

Consult the material safety data sheet for further information.

IMPORTANT NOTICE

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